

JABALPUR DEVELOPMENT AUTHORITY JABALPUR

TECHNICAL SANCTION

Name of work:- Finishing Work of multi storied Residential cum commercial complex under Scheme No. 16 at Jabalpur

S.O.R. follows is of M.P.P.W.D. (Vol.1 & 2nd) for Building Work In force From 1st August 2024

Sr.	Particulars	Amount
1	COST FINISHING WORK CIVIL	141849190.00
2	INTERNAL ELECTRIFICATION	42583633.00
3	COST OF STP	5263199.00
4	COST OF WATER SUPPLY AND SANITARY FITTING	20897349.00
5	COST OF OVER HEAD WARE TANK	928462.00
6	COST OF SRORM (RAIN) WATER LINE	390507.00
7	COST OF DRAINAGE/ SEWERAGE LINE	796013.00
8	COST OF INTERNAL C.C. Road & PAVER BLOCK WORK	6036280.00
9	COST OF COMPOUND WALL & GUARD ROOM	3450287.00
10	COST OF GARDEN DEVELOPMENT & PLANTATION WORK	75197.00
11	COST OF MAIN ENTRANCE GATE	753948.00
	TOTAL AMOUNT	223028065.00

Consultant

Sub Engineer

Assistant Engineer

Executive Engineer

TECHNICAL SANCTION

ESTIMATE NO.:

Date:-

SANCTIONED FOR RS. 223028065/-

IN WORD Twenty Two crore thirty lac twenty eight thousand and Sixty Five

CHARGED To Scheme No. 16

Superintending Engineer
jabalpur development authority
jabalpur

**Probable Amount of Contract for construction of residential
apartment at scheme no. 16, Laxmipur, Jabalpur**

1	Cost of civil work	141849190.00
2	Cost of water supply & sanitary works	28275530.00
3	Cost of internal electrification	42583633.00
4	Cost of external development	10319712.00
Total Amount		223028065.00


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TENDER SCHEDULE

PROPOSED RESIDENTIAL ARARTMENT AT SCHEME NO 16, LAXMIPUR VILLAGE

(Tender Amount 223,028,065)

FOR JABALPUR DEVELMENT AUTHORITY AT JABALPUR

S.O.R. followed is of M.P. P.W.D.(Vol.1 & 2nd) for Building Works in force from 1st August 2024

Sr.	Description	QTY Nos.	UNIT L	RATE B
1	FINISHING WORK CIVIL			
1	RCC M-20 ABOVE FIRST FLOOR LEVEL(lintel)			
	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.			
	(S.O.R.N. 5.3.1/P.78)	23.60	Cum	6541
2	RCC M-20 ABOVE SECOND FLOOR LEVEL			
	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.			
	(S.O.R.N. 5.3.1/P.78)	26.21	Cum	6541
3	Extra for R.C.C. work above floor two level for each floors or part thereof. (except items 5.26 and 5.29)			
	1% of respective item	26.21	Cum	65.41
	(S.O.R.N. 5.31/P.86)			
4	THIRD FLOOR			
	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.			
	(S.O.R.N. 5.3.1/P.78)	26.21	Cum	6541
5	Extra for R.C.C. work above floor two level for each floors or part thereof. (except items 5.26 and 5.29)			
	1% of respective item	26.21	Cum	130.82
	(S.O.R.N. 5.31/P.86)			
6	FOURTH FLOOR			
	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.			
	(S.O.R.N. 5.3.1/P.78)	26.21	Cum	6541
7	Extra for R.C.C. work above floor two level for each floors or part thereof. (except items 5.26 and 5.29)			
	1% of respective item	26.21	Cum	196.23
	(S.O.R.N. 5.31/P.86)			


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	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.			
	(S.O.R.N. 5.3.1/P.78)	26.21	Cum	6541
9	Extra for R.C.C. work above floor two level for each floors or part thereof. (except items 5.26 and 5.29)			
	1% of respective item	26.21	Cum	261.64
	(S.O.R.N. 5.31/P.86)			
10	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.			
	(S.O.R.N. 5.3.1/P.78)			
	Sixth Floor Roof Beam and Slab			
	(Level from +18.45 to 21.45 M)	26.21	Cum	6541
11	Extra for R.C.C. work above floor two level for each floors or part thereof. (except items 5.26 and 5.29)			
	1% of respective item	26.21	Cum	327.05
	(S.O.R.N. 5.31/P.86)			
12	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.			
	(S.O.R.N. 5.3.1/P.78)			
	Seventh Floor Roof Beam and Slab			
a	(Level from +21.45 to 24.45 M)	26.21	Cum	6541
	Extra for R.C.C. work above floor two level for each floors or part thereof. (except items 5.26 and 5.29)			
	1% of respective item	26.21	Cum	392.46
	(S.O.R.N. 5.31/P.86)			
13	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.			
	(S.O.R.N. 5.3.1/P.78)	26.21	Cum	6541
	Extra for R.C.C. work above floor two level for each floors or part thereof. (except items 5.26 and 5.29)			
	1% of respective item	26.21	Cum	457.87
	(S.O.R.N. 5.31/P.86)			
14	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in beams, suspended floors, roofs having slope of any degree landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases above plinth level and upto floor two level excluding the cost of centering, shuttering, finishing and reinforcement in concrete grade.			
	(S.O.R.N. 5.3.1/P.78)	1.31	Cum	6541

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15	Extra for R.C.C. work above floor two level for each floors or part thereof. (except items 5.26 and 5.29)			
	% of respective item	1.31	Cum	523.28
	(S.O.R.N. 5.31/P.86)			
	Reinforcement			
16	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete . (Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")			
	(S.O.R.N. 5.16.6/P.82)			
	Thermo-Mechanically Treated bars. FE 500 D or more conforming to IS 1786	31257.15	kg	80
17	FORM WORK			
	Lintels, beams, girders, bressumers and cantilevers			
	(S.O.R.N. 5.9.5 / P-78)	325.83	Sqm	356
	SECOND FLOOR TO THIRD FLOOR			
	Lintels, beams, girders, bressumers and cantilevers			
	(S.O.R.N. 5.9.5 / P-80)	325.69	Sqm.	356
	THIRD FLOOR TO FOURTH FLOOR			
	Lintels, beams, girders, bressumers and cantilevers			
	(S.O.R.N. 5.9.5 / P-80)	325.83	Sqm	356
	FOURTH FLOOR TO FIFTH FLOOR			
	Lintels, beams, girders, bressumers and cantilevers			
	(S.O.R.N. 5.9.5 / P-80)	325.83	Sqm	356
	FIFTH FLOOR TO SIXTH FLOOR			
	SIXTH FLOOR TO SEVENTH FLOOR			
	SEVENTH FLOOR TO EIGHTH FLOOR			
	EIGHTH FLOOR TO TERRACE FLOOR			
	EIGHTH FLOOR TO TERRACE FLOOR			
		29.02	Sqm	356
18	TOILETS WATERPROOFING			
	Providing and laying water proofing treatment in sunken portion of WCs, Bathroom etc., by applying cement slurry mixed with water proofing cement compound of applying:			
	a) First layer of slurry of cement @0.488kg/sqm mixed with water proofing cement compound @0.253 kg/sm. This layer will be allowed to air cure for 4 hours.			
	b)Secnd layer of slurry of cement @0.242 kg/sqm mixed with water proofing cement compound @0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for			
	48 hours. The rate includes preparation of surface, treatment and sealing of al joints, corners, junctions, of pipes and masonry with polymer mied slurry.			
	the purpose of measurement the entire treated surface will be measured.			
	(S.O.R.N. 22.5 / P-691,692)	2973.92	Sqm.	207
19	WATER PROOFING (TERRACE FLOOR)			
	Roof grading			


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	Grading roof for receiving water proofing treatment with			
	(S.O.R.N. 22.14 / P-695)			
	Cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size)			
	C.C. 1:2:4			
	(S.O.R.N. 22.14.1 / P-695)	189.76964	Cum	6569
20	Water proofing treatment Fibre glass cloth and cement slurry			
	<p>Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying :</p> <p>a) After surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.</p> <p>b) Laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.</p> <p>c) Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around.</p>			
	(S.O.R.N. 22.6 / P-692)	2372.1205	sqm	338
21	20CM TH. BRICK WORK			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :			
	Cement mortar 1:4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109	172.4865	Cum	5384
22	100 mm Brick work			
	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.			
	Cement mortar 1 : 4 (1 cement : 4 sand)			
	S.O.R.N. 6.15.1.2 / P-	767.8025	Sqm	551
23	20CM TH. BRICK WORK			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :			
	Cement mortar 1 : 4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109	188.887	Cum	5384
24	100 mm Brick work			



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	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.			
	Cement mortar 1 : 4 (1 cement : 4 sand)			
	S.O.R.N. 6.15.1.2 / P-	878.695	Sqm	551
25	20CM TH. BRICK WORK			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :			
	Cement mortar 1:4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109	188.887	Cum	5384
	Extra for brick work in superstructure above floor two levels for each additional floor or part thereof respective item			
	S.O.R.N. 6.11 / P-114	188.887	Cum	215.36
26	100 mm Brick work			
	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.			
	Cement mortar 1 : 4 (1 cement : 4 sand)			
	S.O.R.N. 6.15.1.2 / P-	878.695	Sqm	551
27	Extra for half brick masonry above floor two level			
	Extra for half brick masonry in superstructure, above floor two level for every floor or part thereof respective item.			
	S.O.R.N. 6.16 / P-117	878.695	Sqm	22
28	20CM TH. BRICK WORK			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :			
	Cement mortar 1:4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109	188.887	Cum	5384
29	Extra for brick work in superstructure above floor two levels for each additional floor or part thereof respective item			
	S.O.R.N. 6.11 / P-114	188.887	Cum	323.04
30	100 mm Brick work			
	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.			
	Cement mortar 1 : 4 (1 cement : 4 sand)			
	S.O.R.N. 6.15.1.2 / P-	878.695	Sqm	551
31	Extra for half brick masonry above floor two level			


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	Extra for half brick masonry in superstructure, above floor two level for every floor or part thereof respective item.			
	S.O.R.N. 6.16 / P-117	878.695	Sqm	33
32	20CM TH. BRICK WORK			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :			
	Cement mortar 1:4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109	188.887	Cum	5384
33	Extra for brick work in superstructure above floor two levels for each additional floor or part thereof respective item			
	S.O.R.N. 6.11 / P-114	188.887	Cum	430.72
34	100 mm Brick work			
	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.			
	Cement mortar 1 : 4 (1 cement : 4 sand)			
	S.O.R.N. 6.15.1.2 / P-	878.695	Sqm	551
35	Extra for half brick masonry above floor two level			
	Extra for half brick masonry in superstructure, above floor two level for every floor or part thereof respective item.			
	S.O.R.N. 6.16 / P-117	878.695	Sqm	44
36	20CM TH. BRICK WORK			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :			
	Cement mortar 1:4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109	188.887	Cum	5384
37	Extra for brick work in superstructure above floor two levels for each additional floor or part thereof respective item			
	S.O.R.N. 6.11 / P-114	188.887	Cum	538.4
	add 2 %			
38	100 mm Brick work			
	Half brick masonry with fly ash lime Gypsum bricks (FALG bricks) conforming to IS: 12894, in super structure above plinth and upto floor two level.			
	Cement mortar 1 : 4 (1 cement : 4 sand)			
	S.O.R.N. 6.15.1.2 / P-	878.695	Sqm	551
39	Extra for half brick masonry above floor two level			
	Extra for half brick masonry in superstructure, above floor two level for every floor or part thereof respective item.			


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	S.O.R.N. 6.16 / P-117	878.695	Sqm	55
40	20CM TH. BRICK WORK			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level i			
	Cement mortar 1:4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109	188.887	Cum	5384
41	Extra for brick work in superstructure above floor two levels for each additional floor or part thereof respective item			
	S.O.R.N. 6.11 / P-114	188.887	Cum	646.08
	add 2 %			
42	100 MM THK. BRICK WORK			
		878.70	Sqm	551.00
	Extra for half brick masonry above floor two level			
43	Extra for half brick masonry in superstructure, above floor two level for every floor or part thereof respective item.			
	S.O.R.N. 6.16 / P-117	878.70	Sqm	66.00
44	20CM TH. BRICK WORK			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :			
	Cement mortar 1:4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109	188.887	Cum	5384
45	Extra for brick work in superstructure above floor two levels for each additional floor or part thereof respective item			
	S.O.R.N. 6.11 / P-114	188.887	Cum	753.76
	add 2 %			
		878.695	Cum	551
	Extra for half brick masonry above floor two level			
46	Extra for half brick masonry in superstructure, above floor two level for every floor or part thereof respective item.			
	S.O.R.N. 6.16 / P-117	878.695	Sqm	77
47	20CM TH. BRICK WORK			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :			
	Cement mortar 1:4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109	21.37	Cum	5384
48	Extra for brick work in superstructure above floor two levels for each additional floor or part thereof respective item			
	S.O.R.N. 6.11 / P-114	21.37	Cum	861.44
	add 2 %			
49	M.S. tubular frames for doors, windows and ventilators			


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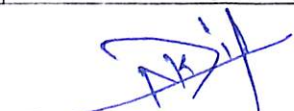
	Providing and fixing M.S. Tubular frames and shutters or frames only or shutters only for doors, windows, ventilators and cupboard with any sections, made of 1.60 mm or 1.25 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size as per drawing, including fixing of necessary butt hinges, stays and screws and applying a priming coat of approved steel primer excluding cost of all fittings such as handles, tower bolts, sliding door bolts, latches etc. and panels.			
	(S.O.R. No. 10.13 / Page no. 307)			
	Fixing with 15x3 mm lugs 10 cm. long embedded in cement concrete block 15x10x10 cm of Cement Concrete 1:3:6 (1 Cement : 3 sand : 6 graded stone aggregate 20 mm nominal size).			
	(S.O.R. No. 10.13.1 / Page no. 307)			
	weight @ 20 kg/mtr	26313	Kg	116.2
50	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts			
	Stainless steel railing (SOR 10.25)	49543.6	Kg	582
51	FLUSH DOOR SHUTTER			
	Laminated flush door shutters core of block board construction frame of finger jointed 1st class hard wood			
	35mm thick including 4 nos. 100mm long, ISI marked heavy weight (2.5mm thick) Stainless steel butt hinges with necessary screws			
	(S.O.R.N. 9.203.1/P.262)	852.33	Sqm	3339
52	WPC flush door (plain) DOOR SHUTTER			
	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In-Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately)			
	(S.O.R. No. 9.170 / Page no. 241)			
	30 mm thick WPC (Wood polymer composite) solid plain flush door shutter			
	(S.O.R. No. 9.170.3 / Page no. 241)	673.425	Sqm	3693
53	DOOR STOPPER			
	Providing and fixing Stainless steel hanging type floor door stopper with necessary screws, etc. complete.			
	(S.O.R.N. 9.76 / P.205)	436	Each	103
54	TOWER BOLT			
	S.S. Tower bolt			


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	Providing and fixing ISI marked stainless steel tower bolt black finish, (Barrel type) with necessary screws etc. complete			
	250X10 MM			
	(S.O.R.N. 9.66.1 / P.211)	863	Each	148
55	SLIDING DOOR BOLT(S.S. sliding door)			
	Providing and fixing ISI marked stainless steel sliding door bolts with nuts and screws etc. complete:			
	(S.O.R.N. 9.65 & 9.65.1 / P.211)			
	300X16 MM	1726	Each	389
56	DOOR HANDLE(S.S. handles)			
	Providing and fixing ISI marked stainless steel handles with necessary screws etc. complete			
	125 MM			
	(S.O.R.N. 9.69.1/P.211)	1726	Each	60
57	DOOR MORTICE LATCHES			
	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).			
	(S.O.R.N. 9.83 / P.214)	103	Each	539
58	ALUMINIUM WORK			
	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z			
	sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including			
	necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be			
	smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing /			
	paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing,			
	paneling and dash fasteners to be paid for separately) :			
	(S.O.R.N. 21.1/pg-662)			
	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC15)			
	(S.O.R.N. 21.1.2.1/pg-663)			
		26009.325	Kg	446
59	GLASS WORK : (Glazing in aluminium door, window, ventilator shutters and partitions)			
	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item) :			
	With float glass panes of 5.0 mm thickness (weight not less than 12.50 kg/sqm)			
	5.0 mm			
	(S.O.R.N. 21.3/ 21.3.2/ P-667)	1733.955	Sqm.	948
60	Silicon sealant			
	Filling the gap in between aluminium frame and adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved			
	quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5 mm depth and 5 mm width			



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	(S.O.R.N. 21.9 / P-666)	4776.3	Rm	53
61	IRON GRILL(Fixed to openings /wooden frames)			
	Fixed to openings /wooden frames with rawl plugs screws etc.			
	(S.O.R.N. 9.43.2 /P.207)	52018.65	Kg	128
62	15 MM THICK PLASTER			
	15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement : 4 sand)			
	(S.O.R.N. 13.2.1 / P-468)	2313.70	Sqm	184
	SECOND FLOOR	2313.70	Sqm	184
	THIRD FLOOR	2313.70	Sqm	218
	FOURTH FLOOR			
63	Exterior walls of height more than 10 m from ground for every additional height of 3 m or part there of			
	(S.O.R.N. 13.15.1/ P-470)	2313.70	Sqm	252
	FIFTH FLOOR			
	Exterior walls			
64	Exterior walls of height more than 10 m from ground for every additional height of 3 m or part there of			
	(S.O.R.N. 13.15.1/ P-470)			
	Interior walls	2313.70	Sqm	286
	SIXTH FLOOR			
	Exterior walls			
65	Exterior walls of height more than 10 m from ground for every additional height of 3 m or part there of			
	(S.O.R.N. 13.15.1/ P-470)	2313.70	Sqm	320
	SEVENTH FLOOR			
	Exterior walls			
66	Exterior walls of height more than 10 m from ground for every additional height of 3 m or part there of			
	(S.O.R.N. 13.15.1/ P-470)	2313.70	Sqm	354
	EIGHTH FLOOR			
	Exterior walls			
67	Exterior walls of height more than 10 m from ground for every additional height of 3 m or part there of			
	(S.O.R.N. 13.15.1/ P-470)	2579.36	Sqm	388
68	12 MM THICK PLASTER			
	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)			
	(S.O.R.N. 13.1.1/ P-397)			
	FIRST FLOOR	2772.00	Sqm	173
	SECOND FLOOR	2937.41	Sqm	173
	THIRD FLOOR			
		2941.40	Sqm	173
	FOURTH FLOOR			
		2937.41	Sqm	173
	FIFTH FLOOR			
		2941.40	Sqm	173


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A.E.

	SIXTH FLOOR			
		2937.41	Sqm	173
	SEVENTH FLOOR			
		2941.40	Sqm	173
	EIGHTH FLOOR			
		3207.06	sqm	173
69	DELUXE MULTY SURFACE PAINT			
	Finishing walls by any mechanical or manual means with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :Two or more coats applied on walls @ 1.25 ltr/10 sqm. Over and including one coat of Special primer applied @ 0.75 ltr / 10 sqm.			
	(S.O.R.N. 13.54.3/p-477)	18652.99	Sqm	81
70	IRON HOLD FAST :-			
	Providing 40x5 mm flat (iron hold fast 40 cm long) (0.628 kg) including fixing to frame with 10			
	mm diameter bolts, nuts and wooden plugs and embeddings in cement concrete block			
	30x10x15cm 1:3:6 mix (1 cement : 3 sand : 6 graded stone aggregate 20mm nominal size)			
	(S.O.R.N. 9.48 / P.208)	5196.00	Each	95
71	VITRIFIED TILES FLOORING			
	Providing and laying vitrified floor-tiles Full Body Design Homogenous Body matt/rustic finish in different size with water absorption less than			
	0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium			
	quality in flooring laid on 20mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete			
	(S.O.R.N. 11.80.1.2 / P-357)	8511.52	Sqm	1206
72	VITRIFIED SKIRTING			
	Providing and laying vitrified floor-tiles Full Body Design Homogenous Body matt/rustic finish in different size with water absorption less than 0.05% and conforming to IS:15622 of approved make in all colours& shades, 1st quality/ premium			
	quality in skirting, Riser laid on 12mm thick cement mortar 1:4(1cement :4sand) including grouting the joints with white cement and matching pigments etc. complete			
	(S.O.R.N. 11.81 / P-357)	1347.65	Sqm	1196
73	GRANITE WORK (Granite work in riser steps, skirting, dado and pillars)			
	Granite stone work 18mm thick of any colour in riser of steps, skirting, dado and pillars laid on 12 mm average thick cement mortar 1:3 (1 cement:3 sand) and jointed with white cement slurry mixed with pigment to match the shade of slab.			
	(S.O.R.N. 11.34 /pg.344)	516.39	Sqm	3413
74	Providing and laying Granite stone flooring in required design and patterns in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry admixed with pigment of matching shade including rubbing, curing and polishing and as directed by the Engineer-in-Charge Granite stone slab Dark Black, Dark Red, White or equivalent,			
	(S.O.R.N. 11.33.1 /pg.344)	8093.64	Sqm	2542

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75	GRANITE STONE NOSING			
	Providing edge moulding to 18mm thick marble stone counters, Vanities, window sills etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.			
	(S.O.R.N. 11.40 & 11.40.2 / pg.345)	749.6	Sqm	269
76	ANTISKID TILE FLOORING			
	Providing and laying Antiskid floor tiles of any sizes, 12 mm thickness with water absorption less than 0.08% and conforming to IS:15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 sand) including grouting the joints with white cement with matching pigments etc., complete.			
	(S.O.R.N. 11.53 / P-347)	2971.49	Sqm	880
77	GLAZED TILE DADO			
	Providing and fixing Ceramic glazed wall tiles 300x450 mm or more (having thickness 6 to 7 mm) of 1st quality conforming to IS: 15622 of approved make in all Colours & shades, except burgundy; bottle green, black laid on 12mm thick bed of Cement Mortar 1:3 (1 Cement: 3 sand) prepared same day when mortar is still green jointed with grey cement slurry @3.3 kg per sqm including pointing the joints with white cement and matching pigments etc., complete.			
	(S.O.R.N. 11.50 / P- 346)	5152.2736	Sqm	776
78	PUTTY WORK			
	Providing and applying white cement based putty of average thickness 1 mm. of approved brand over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete. Note : Putty shall be applied only on the internal walls, for application on the exterior walls prior permission of Chief Engineer will be required.			
	(S.O.R.N. 13.41 / pg 474)	23846.91	Sqm	74
79	WHITE CEMENT BASED PUTTY			
	Providing and applying white cement based putty of average thickness 1 mm. of approved brand over the plastered wall surface to prepare the surface even and smooth i/c all cost of material, labour and scaffold etc in all position complete. Note : Putty shall be applied only on the internal walls, for application on the exterior walls prior permission of APD/Chief Engineer will be required.			
	(S.O.R.N. 13.41 / P 474)	35051.888	sqm	74
80	PLASTIC EMULSION PAINT			
	Wall painting by any mechanical or manual means with plastic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work			
	(S.O.R.N. 13.46 / P- 475)	43454.636	Sqm	64
81	SYNTH ENAMEL PAINT :-			
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade. 1. Two or more coats on new work over and undercoat of suitable shade with ordinary paint of approved brand and manufacture.			
	(S.O.R.N. 13.64 / P-479)	1696.985	Sqm	53
82	Cuddpah stone (Granite)			


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	Providing and fixing 18mm thick gang saw cut mirror polished (premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing moulding and polishing to edge to give high gloss finish wherever required etc. complete at all levels. Samples approved by Engineer-in-Charge.			
	(S.O.R.N.11.22.3 & / P.339)			
	Cuddpah stone			
	(S.O.R.N.11.22.5 & / P.340)	579.846	Sqm.	1279
83	Granite			
	Granite fine grained dark crystal of other colours and various patterns			
	(S.O.R.N.11.22.2 & / P.339)	102.605	Sqm	2356
84	FLY PROOF PROVISION IN WINDOWS			
	Fly proof stainless steel grade 304 wire gauge with 0.5 mm dia. Wire and 1.4 mm wide aperture with matching wood beading			
	(S.O.R.N. 9.6.8 / P-197)			
	Equal to Aluminium window quantity	1733.955	Sqm.	1532


SIB


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A.B.

	STP			
1	Sewage Treatment Plant(STP)Effluent Treatment Plant (ETP)			
	Designing and preparing good for construction civil, mechanical and electrical shop drawings of conventional/package unit of a Sewage Treatment Plant(STP)/ Effluent Treatment Plant (ETP) as per manufacturer/vender's design and specification consisting of treatment units complete for meeting up to date/ target parameters of treated effluent conforming to Madhya Pradesh Pollution Control Board (MPPCB), MoEF GOI guidelines, National Green Tribunal guideline 30.4.2019 and technical specifications codes of practices as published by the Bureau of Indian Standard (BIS) and latest version of "Manual on Sewerage and Sewage Treatment" published by the Central Public Health And Environmental Engineering Organization (CPHEEO). The work shall include supplying, installing, testing and commissioning of electro-mechanical equipments, instruments, pipes, valves, pumps, and gauges etc. as per approved technical specifications, layout and drawing of STP/ETP.			
	Most of the electro-mechanical unit will be placed below ground under road/greenarea/as per site condition, space available. equipment and pump room will be above the ground level and civil work RCC (M25) according to the approved shop drawings and direction of Engineer in charge. Civil work shall be paid separately.Rates are inclusive of cost of operation and maintenance (O&M) for one year after completion of works which include periodical cleaning, operating, providing Consumable replacement of components within guarantee period, disposal of dried sludge and also ensuring safety against theft. The STP/ETP shall comprise of the units of required size as per detail process and hydraulic design.			
	/monthly checking quality of treated sewage, checking of safety arrangements and routine maintenance of plant such as oiling, greasing, cleaning, operating, providing Consumable replacement of components within guarantee period, disposal of dried sludge and also ensuring safety against theft. The STP/ETP shall comprise of the units of required size as per detail process and hydraulic design.			
	(S.O.R.N. 30.1.1 /p-881)			
	150 KLD			
	(S.O.R.N. 30.1.2.5 /p-882)	1	each	5263199


S.I.F.


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A.F.

WATER SUPPLY AND SANITARY FITTINGS				
I	PVC RAIN WATER PIPE			
	Providing and fixing on wall face Rigid Unplasticised rigid PVC (upvc) Single socketed rain water pipes conforming to IS : 13592 Type A including jointing with seal ring using jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion			
	(S.O.R.N. 12.32/Pg.376)			
ii	75 mm. Diameter	1060.0	Rm	136
iii	110mm. Diameter	1180.0	Rm	238
	(S.O.R.N. 12.32.1 & 12.32.2/Pg.376)			
2	PVC PIPE FITTINGS			
	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC Rain water pipes			
	conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.			
	(S.O.R.N. 12.33/Pg.376)			
i	Coupler			
	75 mm dia (minimum wall thickness 1.8 mm)	400	Each	67
	110 mm dia (minimum wall thickness 2.2 mm)	480	Each	102
	(S.O.R.N. 12.33.1.1 & 12.33.1.2/Pg.377)			
ii	Single push fit coupler			
	75 mm dia (minimum wall thickness 1.8 mm)	110	Each	121
	110 mm dia (minimum wall thickness 2.2 mm)	250	Each	94
	(S.O.R.N. 12.33.2.1 & 12.33.2.2 /Pg.377)			
iii	Single tee with door			
	75x75x75 mm (minimum wall thickness 1.8 mm)	510	Each	106
	110x110x110 mm (minimum wall thickness 2.2mm)	600	Each	176
	(S.O.R.N. 12.33.3.1 & 12.33.3.2/Pg.377)			
iii	Single tee without door			
	75x75x75 mm (minimum wall thickness 1.8 mm)	120	Each	106
	110x110x110 mm (minimum wall thickness 2.2mm)	410	Each	163
	(S.O.R.N. 12.33.4.1 & 12.33.4.2/Pg.377)			
iv	Bend 87.5°			
	75 mm bend (minimum wall thickness 1.8 mm)	120	Each	78
	110 mm bend (minimum wall thickness 2.2mm)	280	Each	112
	(S.O.R.N. 12.33.5.1 & 12.33.5.2 /Pg.377)			
v	Shoe (plain)			
	75 mm shoe (minimum wall thickness 1.8 mm)	220	Each	69
	110 mm shoe (minimum wall thickness 2.2mm)	320	Each	99
	(S.O.R.N. 12.33.6/Pg. 224)			

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3	CPVC PIPES CONCEALED WORK			
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per			
	direction of Engineer in Charge. Concealed work including cutting chases and making good the walls etc.			
	a) 15mm. Nominal Bore	1150.0	Rm	207
	b) 20mm. Nominal Bore	1080.0	"	234
	d) 25mm. Nominal bore (S.O.R.N. 18.6.2 to 3/Pg.593)	1020.0	Rm	288
4	CPVC PIPES EXPOSED WORK			
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall			
	18.6.1.4 32 mm nominal outer dia .Pipes.	1090.0	Rm	254
	18.7.6 50 mm nominal outer dia .Pipes. (S.O.R.N. 18.6.1.6 /Pg.593)	980.0	Rm	528
5	PVC SOIL WASTE PIPES			
	Providing and fixing Unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type-B including jointing with seal ring conforming to IS: 5382 leaving 10mm gap for thermal expansion. single socketed pipes for working pressure of 4 kg/ sqcm.			
	75mm dia (minimum wall thickness 3.2mm)	1025.0	Rm	136
	110mm dia (minimum wall thickness 3.2mm) (S.O.R.N. 17.58.1 &.2 /Pg.570)	1156.0	Rm	238
6	PVC SOIL WASTE FITTINGS			
	Providing and fixing unplasticised PVC moulded fittings/accessories for unplasticised rigid PVC soil and waste pipes conforming to IS:13592 Type A including joining with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion. (S.O.R.N. 17.59 /Pg. 301)			
i	Coupler			
	75 mm	410	Each	117
	110 mm	520	"	154
ii	Single pushfit Coupler			
	75 mm	240	Each	140
	110 mm	250	"	195

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iii	Single tee with door			
	75 mm	260	Each	219
	110 mm	320	"	346
iv	Single tee without door			
	75 mm	490	Each	201
	110 mm	510	"	266
v	Bend 87.50			
	75 mm	500	Each	117
	110 mm	610	"	172
7	HEALTH FAUCET			
	Providing and fixing in position best Indian Health Faucet with 8mm dia 1.2 meter long Flexible Tube and wall bracket with N. R. V. (non-return wall).(Premium Range Sanitary Ware)			
	(S.O.R.N. 25.37/Pg. 344)	320	Each	1818
8	BIB -COCKS 15mm			
	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.			
	(S.O.R.N. 18.41/Pg.616)	360	Each	1118
9	STOP-COCKS (15mm)			
	Providing and fixing CP brass stop cock (concealed) of standard design of approved make conforming to IS 8931 15 mm nominal bore.			
	(S.O.R.N. 18.34 /Pg.615)	380	Each	1155
10	PILLER COCK (15mm)			
	Providing and fixing C.P. brass pillar cock approved quality and make conforming to IS specification : 15mm nominal bore 125 mm long foam flow.			
	(S.O.R.N. 18.37/Pg.616)	420	Each	1188
11	ANGULAR STOP COCK			
	Providing and fixing in position best indian (bonut size 24mm, ceramic disc size 19mm and min. body thickness 2mm, nickel plating. 10 micron and chrome plating 0.3 micron, quarter turn)Angular stop cock.			
	(S.O.R.N. 25.20./Pg.742)	450	Each	1573
12	BASIN MIXER			
	Providing and fixing C.P. brass basin mixer of approved quality and make conforming to IS:specification.15 mm nominal bore.	88	Each	2951
	(S.O.R.N. 18.38./Pg.616)			


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13	SPOUT			
	Providing and fixing in position best indian C. P. brass made Spout (nickel plating 0.10 micron and chrome plating 0.3 micron) . (S.O.R.N. 25.28/Pg.743)	420	Each	2199
14	KITCHEN SINK			
	Providing and fixing Stainless A Steel ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required : 17.14.2 Kitchen sink without drain board 17.14.1.2 610x460 mm bowl depth 200m. (S.O.R.N. 17.14.2.2/Pg. 558)	88	Each	4351
15	KITCHEN SINK			
	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required 470x420 mm bowl depth 178 mm. (S.O.R.N. 17.14.2/Pg.558)		Each	3422
16	BOTTLE TRAP			
	Providing and fixing CP brass Bottle Trap of approved quality and make for sink and wash basin. (S.O.R.N. 17.72/Pg. 573)	420	Each	853
17	NAIHANI TRAP			
	Providing and fixing 100 mm sand cast Iron grating for gully trap. (S.O.R.N. 17.65Pg.572)	840	Each	43
18	GATE VALVE			
	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed nd) : (S.O.R.N. 18.12 Pg. 607)			
	c) 32 mm. Nominal bore (S.O.R.N. 18.12.1.2/Pg. 607)	65	Each	558
	d) 50 mm. Nominal bore (S.O.R.N. 18.12.2.4/Pg.607)	85	Each	639
19	INDIAN TYPE W.C. PAN			
	Providing and fixing water closet squatting pan (indian type W.C. pan) with 100mm sand cast iron P & S trap, 10 litre low level white P.V.C. flushing cistern with manually controled device (handle level) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and roofs wherever required : White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type footrests. (S.O.R.N. 17.1.1/Pg.553)	4	Each	2995
20	EUROPEAN SEAT			

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A.B.

	Providing and fixing white vitreous china extended Wall Mounted Anti germ Fluoro-Polymer Coated water closet Size 350 X 360 X 545mm of approved shape (Wall Hung W. C. pan size 350 X 360 X 545mm) with soft closing seat cover, and 7.2 litre Low level slim dual flushing, PP (Poly Propylene) made 80 mm thick consealed flushing cistern, flushing capacity 3 litre/6 litre. with all fittings and fixtures complete including cutting and making good the wall and floors wherever required :			
	Anti germ Fluoro-Polymer Coated (Nano coating) Wall hung water closet Size 380X520X375 mm with solid poly propylene made soft closing seat cover (Premium Range)	254	Each	26412
	(S.O.R.N. 25.3&25.3.1/Pg. 736)			
21	URINALS			
	Providing and fixing white vitreous flat back half stall urinal of size 580x380x350 with white PVC automatic flushing cistern. with fittings. standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and			
	making good the walls and floors wherever required : Single half stall urinals with 5 litre P.V.C. automatic flushing cistern.			
	(S.O.R.N. 17.7.1/Pg.555)	0	Each	5567
22	DIVERTER(Single lever mixer)			
	Providing and fixing in position best indian single Lever Auto Mixing Divertor (Cartridge Size 47mm, nickel plating 0.10 micron and chrome plating 0.3 micron) for Shower area use only .			
	(S.O.R.N. 25.27/Pg.743)	254	Each	7039
23	WASH BASIN			
a	Providing and fixing white vitreous china type Anti germ fluoro-polymer coated counter top wash basin with 15 mm C. P. wall mounted single lever concealed basin mixture, (cartridge size 32 mm)			
	32 mm C. P. brass waste coupling length 130mm and 32 mm C. P. brass bottle trap size 200x300mm i/c cutting and making good the wall and floors wherever required, all fittings and fixtures etc. complete. (Premium Range)			
	White Vitreous China Anti germ Fluoro-Polymer Coated Wash Basin Size 615x415x150mm with wall mounted single lever concealed basin mixture (cartridge size 32mm.) (Premium Range)			
	(S.O.R.N. 25.9.1/Pg.739)	120	Each	15591
b	White Vitreous China Flat back wash basin size 450x300mm with single 15 mm C.P. brass pillar tap.	10	Each	1525
	LIG& EWS			
	(S.O.R.N. 17.11.7/Pg. 557)			
24	WALL MIXTURE			

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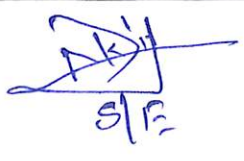
	Providing and fixing in position best indian single Auto Mixing Wall Mixer (Cartridge size 40mm , nickel plating 0.10 micron and chrome plating 0.3 micron) for shower area use only. (S.O.R.N. 25.25/Pg. 743)	10	Each	9920
	LIG /EWS			
25	SHOWER ARM Providing and fixing in position best indian C.P. Brass made Shower Arm length 600mm (nickel plating 0.10 micron and chrome plating 0.3 micron). (S.O.R.N. 25.31/Pg. 743)	254	Each	1502
26	TOWER SHOWER Providing and fixing in position best indian Shower Rose 150mm dia body and face chrome plated, brass made body, Silicon based Rubit cleaning nozzels. 150 mm diameter (S.O.R.N. No- 25.33 Pg.394)	254	Each	3825
27	GULLY TRAP Providing and fixing square-mouth SW gully trap grade A complete with CI grating brick masonry chamber with water tight CI cover with frame of 300x300 mm size (inside) the weight of cover to e not less than 4.50 kg and frame to be not less than 2.70 g as per standard design-with Modular bricks class designation 40 a 100x100 mm size P type with well burnt bricks (S.O.R.N. 19.7.1.1/Pg. 629) b 150x100 mm size P type with well burnt bricks (S.O.R.N. 19.7.2.1/Pg. 629)	55 60	Each Each	1764 1803
28	CHAMBER Constructing masonry Chamber 60x60x75 cm inside in brick work in cement mortar 1:4 (1cement : 4sand) for sluice valve, with CI surface box 100 mm top diameter, 160mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 (1 cement: 2 sand: 4 graded stone aggregate 20 mm nominal size) i/c necessary excavation, foundation concrete 1:5:10 (1cement :5sand :10 graded stone aggregate :40 mm nominal size) and inside plastering with cement mortar 1:3 (1cement :3sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design 18.19.1 with common burnt clay bricks of 25kg/sq.cm. compressive strength (S.O.R.N. 18.19/Pg. 610)	98	Each	5416


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B.E.


A.E.

	OVER HEAD WATER TANK			
1	R.C.C M-20			
	Providing and laying in position machine batched, machine mixed cement concrete (BMC) of M-20 grade for reinforced cement concrete work using cement content as per approved mix design including use of admixtures in recommended proportions as per IS 9103 to accelerate/retard setting, improve workability of concrete without impairing strength and durability as per direction of Engineer-in charge and pumping of concrete to site of laying and finishing but excluding the cost of centering, shuttering, and reinforcement. (Note: - Minimum cement content is 320 kg/cum) and no extra payment for extra cement used as per mix design.			
	(S.O.R.N.5.27 /pg. 85)			
	M-20 Grade Concrete			
	(S.O.R.N. 5.27.2/pg. 65)	37.21	Cum.	6581
	Add extra for each floor for all works above floor five level.			
	(S.O.R.N. 5.27.3/pg. 85)	37.21	Cum.	216
2	STEEL REINFORCEMENT			
	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire all wastages and overlaps, couplers (overlaps shall be provided as per requirement of IS 13920 for ductile detailing IS 456 RCC Design & SP 34 Reinforcement detailing) etc. complete .(Note:- 1. Spacer bars (chairs) shall be paid separately as shown in the drawing and as per direction of engineer in charge. 2. No extra payment shall be done for overlaps and/or couplers. 3. Couplers shall be conforming to IS code on "Reinforcement Couplers for Mechanical Splices of Bars for Concrete Reinforcement - Specification")			
	Thermo-Mechanically Treated bars. FE 500 D or more conforming to IS 1786			
	(S.O.R.N. 5.16.6/P.82)	4464.72	Kg	80
3	FORM WORK			
	Columns, P i l l a r s , Piers, Abutments, Posts and Struts			
	(S.O.R.N. 5.9.6/pg.80)	44.1	sqm	471.2
	Lintels, beams, girders, bressumers and cantilevers			
	(S.O.R.N. 5.9.5/pg.80)	72.9	sqm	356
	Bottom slab			
	(S.O.R.N. 5.9.3/pg.79)	99.12	sqm	439.6
	Retaining Walls			
	(S.O.R.N. 5.9.5/pg.80)	52.8	sqm	356
4	INTEGRAL WATERPROOFING HORIZONTAL			
	Providing and laying integral cement based treatment for water proofing on horizontal surface at all depth below ground level for under ground structures as directed by Engineer-in-Charge and consisting of : (a) Ist layer of 22mm to 25mm thick approved and specified rough stone slab over a 25mm thick base of cement mortar 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound conforming to IS:2645 in the recommended proportion over the leveling course (leveling course to be paid separately). Joints sealed and grouted with cement slurry mixed with water proofing compound.(b) 2nd layer of 25mm thick cement mortar 1:3 (1 cement: 3 coarse sand)			

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	mixed with water proofing compound in recommended proportions. (c) Finishing top with stone aggregate of 10mm to 12mm nominal size spreading @ 8 cum/sqm thoroughly embedded in the 2nd layer.(with 5years of service guarantee) 22.1.1 Using rough kota stone.			
	spreading @ 8 cum/sqm thoroughly embedded in the 2nd layer. 22.1.1 Using rough kota stone.			
	(S.O.R.N. 22.1/P.690)	99.12	sqm	916
5	INTEGRAL WATERPROOFING VERTICAL			
	Providing and laying integral cement based treatment for water proofing on the vertical surface by fixing specified stone slab 22 mm to 25mm thick with cement slurry mixed with water proofing compound conforming to IS:2645 in recommended proportions with a gap of 20mm (minimum) between stone slabs and the receiving surfaces and filling the gaps with neat cement slurry mixed with water proofing compound and finishing the exterior of stone slab with cement mortar 1:3 (1 cement : 3 coarse sand) 20mm thick with neat cement punning mixed with water proofing compound in recommended proportion complete at all levels and as directed by Engineer-in-charge: (with 5years of service guarantee) : 22.2 Using rough kota stone.			
	S.O.R.N. 22.2/P.690	52.8	Sqm	1013
6	6 MM THICK PLASTER			
	6 mm cement plaster of mix :			
	1:3 (1 cement: 3 fine sand)			
	(S.O.R.N. 13.8/ P-468)	451.475	Sqm	144

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	STORM(RAIN) WATER LINE			
1	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : 2.10.1 All kinds of soil Page no. 23			
	2.9.2 Pipes, cables etc. Exceeding 80 mm dia but not exceeding 300 mm. (Page No.15)	168.612	Cum.	156
2	Providing and laying cement concrete of specified grade excluding the cost of centering and shuttering - all work up to plinth level			
	4.1.1.3 M-15 grade concrete	16.86	Cum.	4471
3	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : page no. 342			
	250mm dia pipe (Page 630)			
	(S.O.R.N. 19.8.3)	43.73	Rm	385
4	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : page no. 342			
	300 mm dia. RCC pipe			
	(S.O.R.N. 19.8.4)	226.81	Rm	480
5	Filling available excavated earth (excluding hard rock/ordinary rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m. (Page no. 19)			
	(S.O.R.N. 2.24)	150.49	Cum.	95
6	Constructing brick masonry road gully chamber 110x50X77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 sand) including 500x450 mm precast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :			
	(S.O.R.N. 19.29.1)	21	Each	6285
7	Constructing brick masonry circular type manhole 0.91 m internal dia. at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 sand) inside cement plaster 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 sand : 6 graded stone aggregate with 40 mm nominal size), and making necessary channels			
	(S.O.R.N. 19.11.1.1) with well burnt bricks (Page No. 632)	2	Nos	8418

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DRAINAGE/SEWERAGE LINE				
1	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : (No extra lift is payable if work is done by mechanical means) in all kinds of soil			
	2.9.2 Pipes, cables etc. Exceeding 80 mm dia but not exceeding 300 mm. (Page No.15)	212.265	Cum.	156
2	Providing, fixing and lowering, laying and jointing Double Walled Corrugated (DWC) Pipes of HDPE in 6m. length bar with IS-14930-II in prepared trenches in grade and level including cost of couplers and testing of pipes at factory as per the stipulation in relevant IS codes etc. complete(road & bridge 2014 page no.35)			
	200mm outer diameter			
	(S.O.R.N. 19.46.3)	276.87	Rm	608
	300mm outer diameter	229.8	Rm	915
	(S.O.R.N. 19.46.3)			
3	Filling available excavated earth (excluding Hard rock/ordinary rock) in trenches, plinth sides of foundations etc. in layers not exceeding 20cm. In depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m. Page no. 19			
	(S.O.R.N. 2.24)	280.65	Cum.	95
4	construction brick masonry manhole In cement mortar 1:4 (1 cement : 4 sand) RCC top slab with cement concrete 1: 2:4 mix size foundation concrete 1:4:8 (1 cement : 4 sand : 8 graded stone aggregate 40mm nominal size) inside the Plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finishing with floating coat of neat cement making channel in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20mm nominal size) finishing with a floating coat of neat cement complete as per standard design			
	(S.O.R.N. 19.9.1.1)	20	Each	7997
5	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium frame) 500 mm internal dimensions total weight of cover And frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :			
	(S.O.R.N. 19.9.2.1)	10	Each	18086
6	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 sand), inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 sand : 6 graded stone aggregate 40mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement all complete as per standard design			
	(S.O.R.N. 19.11.1)	2	Each	8417

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	INTERNAL C.C. ROAD & PAVER BLOCK WORK			
1	Excavation for roadway in soil including loading in truck for carrying of cut earth to embankment site with all lifts and lead upto 1000 metres as per clauses of section-300.			
	ITEM NO 3.1 , Page No.9) ,	1159.73	Cum.	210
2	providing Crushed Stone Aggregate Deposting on a prepared Surface by Hauling Vehicle ,Spreding and mixing with a motor grader ,watering and compacting with a vibratory roller as per clause 410 to farm a layuer of Sub base /base in acordance to table No. 400-14,400-15 And as per clause of section 407 of specification			
	ITEM NO 4.2 , Page No.13) ,	579.86	Cum.	1186
3	Construction of dry lean cement concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ Cum., optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8- 10 tonnes vibratory roller, finishing and curing as per clause 601 of specification complete in all respect.			
	ITEM NO 6.1 , Page No.28) ,	289.93	Cum.	2712
4	Construction of un-reinforced, dowel jointed, plain cement concrete pavement M-30 grade concrete over a prepared sub base with cement , coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, admixtures as approved, curing compound, finishing to lines and grades as per drawing as per IRC 15 2011 and as per relevant clauses of section 602 of specifications complete but excluding cost of steel in dowel bar and tie rods etc.			
	ITEM No 6.3, Page No.28)	579.86	Cum.	5769
5	Construction of cement concrete kerb with top and bottom width 115 and 165 mm respectively ,250mm hieght in M20 grade PCC on M-15 grade 150mm thick or with kerb laying machine ,foundation having 50mm projection beyond kerb stone laid with kerb laying machine foundation concrete laid manually ,all complete as per clause 409			
	Using Concrete Batching And Mixing Plant			
	ITEM No 8.1, Page No.40)	616.2	meter	390
6	Supply of Following Material Including All Lead And Stacking Etc.			
	crusher Stone dust			
	ITEM No 1.3, Page No.3)	138.645	Cum	300


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7	Providing and laying factory made coloured chamfered edge Cement Concrete paver blocks of required strength, thickness and size/shape, made by table vibratory method using PU mould, laid in required colour and pattern over 50mm thick compacted bed of stone dust, compacting and proper embedding/laying of inter locking paver blocks into the bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand including locking edges with M 15 cement concrete in footpath, light traffic parking etc. complete as per direction of Engineer-in-Charge.			
	(SOR-Building Vol 1&2nd 2024) pg-31			
	100mm thick C.C. paver block of M-35 grade with approved colour, design and pattern.	500.75	Sqm	837
	Add extra in Item No.6.3, 6.4, 6.6 & 6.10 above for the cost of steel in dowel bar and tie rod including craddle, laps etc. complete required as per design			
	Tor steel tie rod			
	ITEM No 6.8(b), Page No.29)	4.64	MT	58734

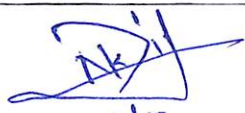
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COMPOUND WALL & GUARD ROOM			
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed.(No extra lift is payable if work is done by mechanical means) All kinds of soil		
	(S.O.R.N. 2.6/P.13)	429.39	Cum
2	Earth work in excavation/ by mechanical means (Hydraulic Excavator)/ manual means over areas (exceeding 30 cm in depth,1.5m in width as well as 10 sqm on plan) including dressing of sides and ramming of bottom disposal of and ramming of bottom disposal of excavated earthNote:-Excavation of hard , rock shall be the property of the contractor subject to recovery .excavated material has to shift from site within 15 days after nstruction issued by Engineer-In- Charge otherwise a fter this penalty will imposed on cum per day.		
	(S.O.R.N. 2.7.1/P.13)	85.878	Cum
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level		
	(S.O.R.N. 4.1 & 4.1.1.3/P.40)		
	M-15 Grade Concrete	19.107	Cum
4	Providing and laying in position specified grade of reinforced cement concrete (with 20 mm nominal size graded stone aggregate) excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level		
	M-20 Grade Concrete		
	(S.O.R.N. 5.1/pg. 65)	100.011	Cum.
5	MOORUM FILLING		
	Supplying and filing in plinth with soil (other then BC soil) having MDD not less than 1.85 t/m3 under floors including watering, ramming and compacting (minimum compaction 95% of MDD) in layers not exceeding 15cm depth and dressing complete.		
	(S.O.R.N. 2.27.2/pg. 20)		
		396.15	Cum.
6	R.C.C M-20 (above plinth)		
	Reinforced cement concrete work (with 20 mm nominal size graded stone aggregate) in walls (any thickness), including attached plasters, butteresses, plinth and string courses, fillets, columns, pillars, posts and struts etc. above plinth level and up to floor two level excluding cost of centering, shuttering, finishing and reinforcement		
	M-20 Grade Concrete		
	(S.O.R.N. 5.2.1/pg.78)		
		31.86	Cum.
7	STEEL ReinforCement :-		
	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire up to floor two level including all wastage etc. complete.		
	Thermo-Mechanically Treated bars. FE 500 D or more conforming to IS 1786		
	(S.O.R.N. 5.16/P.82)	14506.14	Kg
8	FALSE WORK		
	Centering and shuttering including strutting propping etc. and removal of form for:		
a	Foundations, footings, bases of columns etc. for concrete up to plinth level :		
	(S.O.R.N. 5.9.1/P.79)		
		160.31	Sqm.
	Walls (any thickness) in cluding attached pilasters butter esses, plinth beams and string courses etc		
	Plinth beams		
		139.10	Sqm.


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	Columns, Pillars, Piers, Abutments, Posts and Struts.			
		322.09	Sqm.	471.2
9	BRICK WORK 200mm thk. :-			
	Brick work with fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, in super structure above plinth level up to floor two level in :			
	Cement mortar 1:4 (1 cement : 4 sand)			
	S.O.R.N. 6.7.1.1 / P-109			
		24.30	Cum	5384
10	15 MM THICK. PLASTER			
	20mm Cement Plaster of mix :- 1:4 (1 cement: 4 sand)			
	(S.O.R.N. 13.2.1/pg. 468)			
		636.52	Sqm	184
11	12 MM THICK. PLASTER			
	12mm Cement Plaster of mix :- 1:4 (1 cement: 4 sand)			
	one face(1:4 (1 cement : 4 sand)			
	(S.O.R.N. 13.4.2/pg.244)	636.52	Sqm	203
12	SAND FACE PLASTER			
	Providing sand faced plaster to concrete or brick masonry surfaces in all positions in two coats, base coat of 13 mm thick in cement mortar 1:4 (1 cement : 4 sand), clearing the surface by combing it and finishing coat of 8 mm. thick in cement			
	mortar 1:3 (1 cement: 3 sand) and surface taking out grains by mechanical arrangement by with cost of all material, labour, and T & P including all lead, lift and scaffolding etc. complete.			
	front face of walls	509.22	Sqm	314
	(S.O.R.N. 13.13/P.469)			
13	WEATHER SHIELD PAINT :-			
	Finishing walls with Delux Multy surface paint system for interiors & exteriors using primer as per manufactured specification :- (Two or more coats) of required colour to give an even shade applying @ 1.25 Ltr./10Sqm. over and including one coat of special primer applying @ 0.75 ltr./10sqm.			
	(S.O.R.N. 13.54.2/pg.457)			
	both side of walls	2546.08	Sqm	71
14	BRASS HANDLE			
	Providing and fixing bright finished brass handles with screws etc. complete			
	125 MM (Guard Room)			
	(S.O.R.N. 9.81.1/P.213)			
		8.00	Each	205
15	ALUMINIUM WORK			
	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :			
	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).			

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	(S.O.R.N. 21.1.2/pg-362)			
	Anodised aluminium(anodised transparent or dyed to required shade according to IS:1868, Minimum anodic coating of grade			
	(S.O.R.N. 21.1.2.1/pg-362)			
		216.00	Kg	446
16	GLASS WORK :			
	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear float glass both side having 12mm air gap including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of Engineer-in-Charge complete.			
	(S.O.R.N. 21.11 /p- 364)			
	Basement Floors			
		24.75	Sqm.	3103
17	IRON GRILL			
	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete. Fixed to steel windows by welding.			
	(S.O.R.N. 9.43.1 /P.207)			
		556.20	Kg	119


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GARDEN DEVELOPMENT & PLANTATION WORK				
1	Supplying and stacking of good earth at site including royalty if any and carriage (earth measured in stacks will be reduced by 20% for payment). Page no.815			
	overall area of plantation (S.O.R.N. 28.2/P.815)	59.03	Cum	511
2	Supplying and stacking sludge at site including royalty and carriage (Sludge measured in stacks will be reduced by 8% for payment) Page no. 815			
	overall area of plantation (S.O.R.N. 28.3/P.815)	44.27	Cum	643
3	Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Officer-in-charge (cost of sludge, dump manure and / or good earth to be paid seperatly). Page no. 815			
	overall area of plantation (S.O.R.N. 28.8/P.815)	29.51	Cum	16
4	Grassing with selected type of grass including watering and maintainance of lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth , if needed (the good earth shall be paid for separatly) :			
	(S.O.R.N. 28.10/P.816)			
	In rows 7.5 cm apart in either direction			
	overall area of plantation (S.O.R.N. 28.10.2/P.816)	295.14	Sqm	24.04
5	Ground cover plants height: 30cm-45cm			
	Alpinia Verigated, Alternanthera species, Aspyragus Myerri, Aspyragus Springenii, Aspidistra, Canna (regular, Dwarf), Chlorodendron Inermii, Chlorophytum (Green). Chlorophytum verigated, Coffea Chinensis, Dianella Verigated, Durranta (Goldiana, Green, Verigated), Euphorbia Milli hybrid, Ipomea (Golden leaves), Iresine herbstii, Juniper Prostata, Juniper Africana, Ophiopogon plant, Ophiopogon jaburan, Portulacaria Afra (jade Plant), Schefflera Green, Schefflera verigated, Setcreasea Purpurea, Syngonium (Butterfly) species, Syngonium miniature, Syngonium Dwarf, Syngonium variegated, Tradescantia, Wadelia Trilobata, Zebrina Tradescantia, Pendanas, Spider Lily Black, Spider Lily verigated, Aclypha (Red, Green,Mini), Lantana (Red, Yellow, Purple, White, verigated), Haemalia Mini and similar plants.			
	(S.O.R.N. 28.15.3/P.819)	260.00	Each	50

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1	ENTRANCE GATE			
	Steel work in built up M.S. tubular section (round, square or rectangular hollow tubes etc.) trusses/frame work etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.	3348	Kg	117
	Hot finished welded type tubes			
	SOR No. 10.14.1 Page No. 308			
2	Steel work in Frame			
	Steel work in built up M.S. tubular section (round, square or rectangular hollow tube etc.) trusses/frame work etc. including cutting, hoisting, fixing in position and Hot finished welded tubes applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.			
	(S.O.R.N. 10.14 & 10.14.1/P-308)			
	35 X 35 MM / 50 X 50 MM			
		3096.000	Kg	117.00


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INTERNAL ELECTRIFICATION

(32)

S.No	Item No/ Sub	Sub I.No.	Item Name	Description of Item	QTY	UNIT	RATE
				INTERNAL ELECTRIFICATION	Nos.	L	B
1	4.1		Point wiring concealed rigid P.V.C. conduit	Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints etc. as required as per specification for :-Using modular accessories			
		4.1.1	Light/fan points primary	Light point/fan points.			
		4.1.1.1	Short	Primary short point	1256	Each	451
		4.1.1.2	Medium	Primary medium point	3220	Each	830
		4.1.1.3	Long	Primary long point	3480	Each	1300
		4.1.2	Looping point secondary	(Light point/fan points) looping point			
		4.1.2.1	Short	Secondary short point	236	Each	226
		4.1.2.2	Medium	Secondary medium point	236	Each	415
		4.1.2.3	Long	Secondary long point	236	Each	650
		4.1.3	Socket 6A sep. board	3 Pin 6 Amp socket outlet on separate board			
		4.1.3.1	Short	Short point	296	Each	574
		4.1.3.2	Medium	Medium point	1056	Each	990
		4.1.3.3	Long	Long point	1355	Each	1515
		4.1.4	Call bell point	Call bell/buzzer points			
		4.1.4.2	Medium	Medium point	10	Each	797
		4.1.4.3	Long	Long point	120	Each	1183
		4.1.5	Twin control point	Twin control light points			
		4.1.5.2	Medium	Medium point	200	Each	948
		4.1.5.3	Long	Long point	80	Each	1453
2	4.2		Socket same board 6A	Point wiring (excluding metallic switch box & sheet but including switches, sockets) for 3 pin 6 Amp. socket outlet point with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size and 1.5sq. mm. PVC insulated copper earth continuity conductor of green colour inside conduit with required materials as per specification on same board.	2300	Each	265
3	4.3		Circuit wiring 2.5Sq. mm	Wiring for circuit wiring with PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) of ISI marked suitable size etc. as required as per specification			
		4.3.1	2 Wire	2x2.5 Sq.mm.	11370	P/mtr	139
		4.3.2	4 Wire	4x2.5 Sq.mm.	6840	P/mtr	224
		4.3.3	6 Wire	6x2.5 Sq.mm.	3680	P/mtr	288
		4.3.4	8 Wire	8x2.5 Sq.mm.	1900	P/mtr	353



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4	9.1		Power point wiring concealed rigid P.V.C. conduit	Point wiring (excluding metallic switch box & sheet) for 3 Pin 16 Amp. socket outlet point with 4sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid P.V.C. conduit (HMS) ISI marked of suitable size etc. with 20/16 Amp. F.T. switch & socket/S.S. combined 20/16/6 Amp. of ISI marked and 4sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit, screwless connector for joints as per specification for :-Using modular accessories			
		9.1.1	Power point	On separate board			
		9.1.1.1	Short	Short point	176	Each	985
		9.1.1.2	Medium	Medium point	344	Each	1749
		9.1.1.3	Long	Long point	440	Each	2612
		9.1.1.4	Ex. long-I	Extra long-I	512	Each	3648
		9.1.1.5	Ex. long-II	Extra long-II	242	Each	4771
		9.1.1.6	Ex. long-III	Extra long-III	174	Each	5986
5	9.2		Same board	Same board switch & socket 16 Amp./S.S. combined 20/16/6 Amp	1684	Each	437
6	16.1		Concealed PVC conduit HMS	Supply and fixing PVC conduit ISI marked FRLS along with the accessories in concealed system etc. as required			
		16.1.1	20 mm. HMS	PVC. conduit 20 mm (HMS)	6280	Metre	61
		16.1.2	25 mm. HMS	PVC. conduit 25 mm (HMS)	6280	Metre	74
		16.1.3	32 mm. HMS	PVC. conduit 32 mm (HMS)	1790	Metre	115
7	18.2		Modular G.I. metal box (concealed)	Supplying and fixing of approved make modular type G.I. metal box 1.2mm minimum thick and depth 50mm for single row boxes and 60mm depth for two/three row boxes earth terminal stud with nut and washer with modular base and cover plate including fixing in concealed etc. as required for:-			
		18.2.1	G.I box 1 Or 2 module	1Or 2 Module metal box	460	Each	182
		18.2.2	G.I box 3 module	3 Module metal box	794	Each	216
		18.2.3	G.I box 4 module	4 Module metal box	560	Each	244
		18.2.4	G.I box 6 module	6 Module metal box	1255	Each	309
		18.2.5	G.I box 8/9 module	8/9 Module metal box	940	Each	373
		18.2.6	G.I box 12 module	12 Module metal box	1176	Each	502
		18.2.7	G.I box 16 module	16 Module metal box	108	Each	585
		18.2.8	G.I box 18 module	18 Module metal box	196	Each	642
8	19.1		Single core PVC insulated FRLS cable	Supplying and drawing single core PVC insulated cable FRLS with copper multi strand conductor ISI marked in existing rigid PVC casing and capping/conduit in surface or concealed as per specification.			
		19.1.1	1.5 sq. mm.	1.5 sq. mm. wire			
		19.1.1.1	1 wire	1 X 1.5 sq. mm.	8720	Metre	19
		19.1.1.2	2 wire	2 X 1.5 sq. mm.	8670	Metre	38

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		19.1.1.3	3 wire	3 X 1.5 sq. mm.	4150	Metre	56
		19.1.2	2.5 sq. mm.	2.5 sq. mm. wire			
		19.1.2.1	1 wire	1 X 2.5 sq. mm.	18240	Metre	30
		19.1.3	4.00 sq. mm.	4.00 sq. mm. wire			
		19.1.3.3	3 wire	3 X 4.00 sq. mm.	8520	Metre	134
9	23.1		Sub mains in recessed/concealed rigid PVC conduit (HMS)	Wiring for sub-mains with PVC insulated cable FRLS with copper multi strand conductor ISI marked in recessed/concealed rigid PVC conduit (HMS) FRLS ISI marked of suitable size (conduit included) including 2mm thick accessories, connection etc, as required as per specification. (Refer General Notes for Classification of Conduit Wiring Point No.11)			
		23.1.2	3 Wire	3 Wire sub main			
		23.1.2.3	6.0 sq. mm. cable	6.0 sq. mm. cable	650	Metre	321
		23.1.4	4 Wire	4 Wire sub main			
		23.1.4.3	6.0 sq. mm. cable	6.0 sq. mm. cable	290	Metre	398
		23.1.4.4	10.0 sq. mm. cable	10.0 sq. mm. cable	5430	Metre	601
		23.1.4.5	16.0 sq. mm. cable	16.0 sq. mm. cable	50	Metre	873
10	27.8		MCB 'C' Series, 240/415V, 50 Cycle, 10kA/15kA	Supply of ISI marked and accepted standard of miniature circuit breaker (MCB) of 'C' series with short circuit indication, suitable for 240/415 Volts, 50 Cycle, 10 kA/15 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898 : 2002 & 60947-2 but without enclosures :-			
		27.8.1	Single pole	Single pole			
		27.8.1.1	MCB SP 0.5A to 5A, 10kA	MCB SP 0.5Amp to 5Amp 10kA rating	30	Each	439
		27.8.1.2	MCB SP 6A to 32A, 10kA	MCB SP 6Amp to 32Amp 10kA rating	2322	Each	263
		27.8.2	Double Pole	Double pole			
		27.8.2.2	MCB DP 6A to 32A, 10kA	MCB DP 6Amp to 32Amp 10kA rating	121	Each	887
		27.8.3	Triple pole	For Triple pole			
		27.8.3.2	MCB TP 6A to 32A, 10kA	MCB TP 6Amp to 32Amp 10kA rating	10	Each	1411
		27.8.3.3	MCB TP 40A, 10kA	MCB TP For 40Amp 10kA rating	10	Each	2099
		27.8.3.4	MCB TP 50A to 63A, 10kA	MCB TP 50Amp to 63Amp 10kA rating	10	Each	2157
		27.8.4	Four pole	Four pole			
		27.8.4.2	MCB FP 6A to 32A, 10kA	MCB FP 6Amp to 32Amp 10kA rating	14	Each	1965
		27.8.4.3	MCB FP 40A, 10kA	MCB FP For 40Amp 10kA rating	102	Each	2714
		27.8.4.4	MCB FP 50A to 63A, 10kA	MCB FP 50Amp to 63 Amp 10kA rating	280	Each	2795
11	27.11		SPN MCB DB	Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-			

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		27.11.4	6 Way double door	6 Way double door IP 43 protection	64	Each	1846
		27.11.5	8 Way double door	8 Way double door IP 43 protection	10	Each	2127
		27.11.6	12 Way double door	12 Way double door IP 43 protection	14	Each	2738
12	27.12		TPN MCB DB double door	Supplying of approved make TPN MCB DB metal double door IP 43 protection with provision for FP MCB/ Isolator/ RCCB/ RCBO as incomer and SP MCBs as outgoing inclusive of busbar, neutral bar, earth bar, connection copper wire not less than 16 sq.mm & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator):			
		27.12.2	4 Way (8+12)	4 Way (8+12)	30	Each	4444
		27.12.3	6 Way (8+18)	6 Way (8+18)	90	Each	5526
		27.12.4	8 Way (8+24)	8 Way (8+24)	120	Each	6716
13	27.21		RCBOs	Supplying and installing of RCBOs (Residual current circuit breaker with overload and short circuit-protection) ISI marked complete as per I.S. standard conforming to IEC:61009-1 & IS:12640-2, 240/415V 50 Hz with 10 kA short circuit withstand capacity for earth leakage, overload & short circuit protection including connection in existing enclosure in approved manner as per specification.			
		27.21.1	DP (4 Module)	DP (4 module)			
		27.21.1.1	2 Pole 6A- 25A, 30mA	2 pole 6Amp to 25Amp, 30 mA sensitivity	16	Each	4491
		27.21.2	FP (8 Module)	FP (8module)			
		27.21.2.4	4 Pole 63A, 30mA	4 pole 63Amp, 30mA sensitivity	120	Each	7908
14	28.4		Fixing of MCB/MCCB/Isolator, (labour only)	Fixing of MCB/MCCB/Isolator in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (labour only)			
		28.4.1	MCB/Isolator SP/DP	MCB/Isolator SP/DP	2322	Each	22
		28.4.2	MCB/MCCB Isolator TP/TPN/FP	MCB/MCCB Isolator TP/TPN/FP	263	Each	28
15	28.8		Labour charges	Labour charges for fixing sheet steel enclosures, MCB/MCCBDB flush mounting type , as per accepted practice, duly embedded and end plate completely flushed in wall, cable connection etc. complete :-			
			For item	For item no :-			
		28.8.1	Item SOR no.	27.11.1 to 27.11.7 ; 27.12.1 to 27.12.3 & 27.13.1	90	Each	268
		28.8.2	Item SOR no.	27.12.4 & 27.12.5 ; 27.13.2 to 27.13.4 ; 27.14.1 to 27.14.4 & 27.15.1 to 27.15.4	120	Each	297
16	29.3		Call bell	Supply and fixing as per specification call bell/buzzer of approved make with necessary materials complete.			
		29.3.2	Buzzer	Buzzer	100	Each	82

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17	29.15		Danger board	Supply and fixing as per specification caution/danger board of approved make with necessary material complete.			
		29.15.1	200 X 150 mm, For MV/LT	Small size 200 X 150 mm for MV/LT	6	Each	97
18	29.25		Modular electronic fan regulator	Supply and fixing of approved make step type modular electronic fan regulator including connection etc. as required on existing board			
		29.25.1	1 Module	100 Watt(1 module)	960	Each	315
		29.25.2	2 Module	100 Watt(2 module)	960	Each	484
19	31.7		LED down lighter (surface mounting)	Supply and fixing surface mounting LED down lighter, LED of 1 to 3Watt each assembled on single MCPCB, having color temp upto 6500K & having 50000 burning hrs. life with minimum @ 1.70, system lumen output should be minimum with efficacy>100 lm/Watt, LED driver PF > 0.95, THD < 20% & surge protection 4KV. The colour rendering index of LED light should be more than 70. Housing made of pressure die cast aluminium/CRCA powder coated frame with glare free diffused polycarbonate cover. Submission I.M 79-08/IS16106 (2012). IEC60598, IEC61347i/c connection wire, testing etc. to complete the job..			
		31.7.6	21/22/24W	21/22/24W, color temp 3000-6500k as required.	450	Each	2809
20	32.3		Fixing for ceiling fan clamp	Providing and fixing circular/hexagonal cast iron or M.S. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/M.S. sheet box by mean of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 12mm dia M.S. bar bent to shape as per standard drawing.	960	Each	90
21	37.11		25X5 mm Cu Strip	Providing and fixing 25 mm x 5mm copper strip in 40 mm dia GI Pipe from earth electrode as required .	500	Metre	1490
22	37.39		PVC insulated cu. cable earth continuity conductor	Supply and drawing PVC insulated copper cable (earth continuity conductor) of green colour FRLS with copper multi strand conductor ISI mark in existing conduit along with other wires as required as per specification :			
		37.39.2	6 sq. mm.	6 sq. mm.	260	Metre	71
		37.39.3	10 sq. mm.	10 sq. mm.	5400	Metre	102
		37.39.4	16 sq. mm.	16 sq. mm.	20	Metre	156
23	37.40		Safe earthing electrode consisting pipe-in-pipe technology	Supply and erection of approved make safe earthing electrode consisting pipe-in-pipe technology as per IS 3043-1987 made of corrosion free G.I. pipes with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for effective and maintenance free earthing in earth pit of minimum bore dia. 150mm size, as mentioned below :			

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		37.40.2	3 Metre G.I. pipe, outer dia 50 mm	With 3 metre G.I. pipes having outer pipe dia of 50mm having 80-200 micron galvanizing, Inner pipe dia. of 25mm having 200-250 Micron galvanizing, connection terminal dia. of 12mm in nominal soil with 50 kg (two bag) back filling bentonite compound UL listed and confirm to relevant International/Indian standards around electrode upto ground level.	20	Each	13140
		37.40.4	3 Metre pipe, outer dia 80 mm	With 3 metre pipe of 80mm outer dia., 40mm inner dia and 14mm terminal dia. In soft/hard rock/marshy soil with 50 kgs. (two bag) back filling bentonite compound UL listed and confirm to relevant International/Indian standards around electrode upto ground level.	20	Each	21419
24	37.42		Polycarbonate heavy duty pit cover	Supply and installation of polycarbonate heavy duty pit cover tested for 5000Kg SWL for earth electrode at ground level size 300x300x155 mm with lockable lid.	40	Each	1501
25	41.1		XLPE insulated power cable, al. conductor	Supply of XLPE insulated power cable (conforming IS-7098 Part-I) 1100 Volt grade, 1 core/2 core/3½ core/4 core ISI marked with alu. stranded /solid conductor			
		41.1.6	Armoured 3 core	Armoured 3 core			
		41.1.6.1	6 sq. mm.	6 sq. mm.	400	Metre	112
		41.1.10	4 core armoured	4 core armoured			
		41.1.10.1	6 sq. mm.	6 sq. mm.	390	Metre	151
		41.1.10.2	10 sq. mm.	10 sq. mm.	250	Metre	181
		41.1.10.3	16 sq. mm.	16 sq. mm.	150	Metre	218
		41.1.10.4	25 sq. mm	25 sq. mm	150	Metre	279
26	41.12		G.I. pipe for protection of underground cable	Supplying & installing G.I. pipe for protection of underground cable fixed on wall/support/in trench/fixed between two rigid existing support of wall/beam for erection of ceiling Fan/down rod for stiff pendent for light luminaries /fan/protective for earthing, lightning conductor down strip/overhead service line/for submersible cable or centrifugal pump for water supply with necessary iron clamp coupler, bend, tee, elbow, nuts and bolts etc. complete in an approved manner as required to complete excluding cost of excavation/dismantling & other finished masonry Item complete.			
		41.12.1	For 'B' class pipe	For 'B' class pipe ISI marked (IS-1161-68)			
		41.12.1.9	100.00mm	100.00mm	50	Metre	1256

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27	41.24		Cable tray	Supply and erection of hot dip G.I. cable tray perforation not more than 17.5% for specific dimensions along with tees, bends. The cable tray shall be hang from ceiling/ fixed to wall with necessary angle/flat iron/hanging rod, for ceiling suspensions, clamp, anchor fastener, nuts, bolts, washers, not more than 1.0 mtr. apart complete as per specification to complete the job. The tray shall be as follows :-			
		41.24.4	450x50x2mm thick	450 x 50 x 2 mm thick	320	Metre	1547

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